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				U.S. National Patent Classification									
NEWS	14	MAR	31	IFICDB, IFIPAT, and IFIUDB enhanced with new custom									
				IPC display formats									
NEWS	15	MAR	31	CAS REGISTRY enhanced with additional experimental									
				spectra									
NEWS	16	MAR	31	CA/CAplus and CASREACT patent number format for U.S.									
				applications updated									
NEWS	17	MAR	31	LPCI now available as a replacement to LDPCI									
NEWS	18	MAR	31	EMBASE, EMBAL, and LEMBASE reloaded with enhancements									
NEWS	19	APR	0.4	STN AnaVist, Version 1, to be discontinued									
NEWS		APR		WPIDS, WPINDEX, and WPIX enhanced with new									
				predefined hit display formats									
NEWS	21	APR	28	EMBASE Controlled Term thesaurus enhanced									
NEWS	22	APR	28	IMSRESEARCH reloaded with enhancements									
NEWS	23	MAY	30	INPAFAMDB now available on STN for patent family									
				searching									
NEWS	24	MAY	30	DGENE, PCTGEN, and USGENE enhanced with new homology									
				sequence search option									
NEWS	25	JUN	0.6	EPFULL enhanced with 260,000 English abstracts									
NEWS	26	JUN	06	KOREAPAT updated with 41,000 documents									
NEWS	27	JUN	13	USPATFULL and USPAT2 updated with 11-character									
				patent numbers for U.S. applications									
NEWS	28	JUN	19	CAS REGISTRY includes selected substances from									
				web-based collections									
NEWS	29	JUN	25	CA/CAplus and USPAT databases updated with IPC									

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chain nodes : 10 11 ring nodes : 1 2 3 4 5

1 2 3 4 5 6 7 8 9 chain bonds:

2-11 4-10 ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 exact/norm bonds:

1-2 1-6 2-3 2-11 3-4 4-5 4-10 5-6 5-7 6-9 7-8 8-9

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3 SEA SSS SAM L1

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100.0% PROCESSED 606 ITERATIONS 111 ANSWERS SEARCH TIME: 00.00.01

111 SEA SSS FUL L1

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FILE COVERS 1907 - 3 Jul 2008 VOL 149 ISS 1 FILE LAST UPDATED: 2 Jul 2008 (20080702/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

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=> s 13

=> d 16 ibib hitstr abs 1-23

L6 ANSWER 1 OF 23 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:902901 CAPLUS

DOCUMENT NUMBER: 143:229880

TITLE: Preparation of isothiazolopyrimidinediones as

parathyroid hormone type I receptor (PTH1R) agonists

for treatment of osteoporosis.

INVENTOR(S): Spearing, Paul Kenneth

PATENT ASSIGNEE(S): Smithkline Beecham Corporation, USA

SOURCE: PCT Int. Appl., 21 pp.

CODEN: PIXXD2 DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.						KIND DATE				APPLICATION NO.								
									WO 2005-US3247										
		W:	AE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,	
			CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,	
			GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	
			LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NI,	
			NO.	NZ.	OM,	PG.	PH.	PL,	PT.	RO.	RU.	SC.	SD,	SE.	SG.	SK,	SL,	SY,	
			TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW	
		RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	
			AZ,	BY,	KG,	KZ,	MD,	RU,	TJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	
			EE,	ES,	FI,	FR,	GB,	GR,	HU,	IE,	IS,	IT,	LT,	LU,	MC,	NL,	PL,	PT,	
			RO,	SE,	SI,	SK,	TR,	BF,	BJ,	CF.	CG,	CI,	CM,	GA,	GN,	GO,	GW,	ML,	
			MR.	NE,	SN,	TD,	TG												
	EP 1713815					A1 20061025				EP 2005-712622				20050203					
		R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,	
			IE,	SI,	LT,	LV,	FI,	RO,	CY,	TR,	BG,	CZ,	EE,	HU,	PL,	SK,	HR,	IS	
	JP 2007522214				T 20070809				JP 2006-553161				20050203						
US 20070099940					A1 20070503				US 2006-597860				20060810						
PRIORITY APPLN. INFO.:					US 200				004-	4-543764P P 20040211					211				
										WO 2005-US3247				W 20050203					
OTHER SOURCE(S): CASREACT 143:229880: MARPAT 143:229880																			

CASREACT 143:229880; MARPAT 143:229880

IT 52903-32-9P 862980-97-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(claimed compound; preparation of isothiazolopyrimidinediones as parathyroid hormone type I receptor agonists for treatment of osteoporosis)

RN 52903-32-9 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-amino-5,7-dibutyl- (CA INDEX NAME)

RN 862980-97-0 CAPLUS CN Isothiazolo[3,4-d]pvrimic

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-amino-7-butyl-5cyclopentyl- (CA INDEX NAME)

IT 862981-03-1P

RI: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of isothiazolopyrimidinediones as parathyroid hormone type I receptor agonists for treatment of osteoporosis)

RN 862981-03-1 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-amino-5-butyl-7cyclopentyl- (CA INDEX NAME)

CI

AB Title compds. [I A, B = S, O, N, CH; Rl, R2 = (substituted) alkyl, alkylene, cycloalkyl, aryl, heteroaryl, heterocycloalkyl, cycloalkylaryl, heterocycloaryl, were prepared Thus, 6-amino-1,3-dibutyl-1H-pyrimidine-2,4-dione in DWF was treated with 1-isothiocyanato-4-methoxybenzene at 23° followed by stirring at 100° for 16 h to give 70% 6-amino-1,3-dibutyl-N-(4-methoxybenzyl)-2,3-dioxo-1,2,3,4-tetrahydropyrimidine-5-carbothioamide. The latter in CHCl3 was treated with Br2 followed by stirring for 36 h at 23° to give 34% 3-amino-5,7-dibutylisothiazolo[3,4-d-]pyrimidine-4,6[5H,7H]-dione. I showed binding to PTH1R in membrane prepns. of HEK cells with IC50 = 2-3 uM.

REFERENCE COUNT:

THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 23 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:50046 CAPLUS

DOCUMENT NUMBER: 138:255198

TITLE: Novel Synthesis and Reactions of 5,7-Dialkyl-4,6-dioxo-4,5,6,7-tetrahydroisothiazolo[3,4,-d]pyrimidine-3-carbonitriles and 6-Methyl-4-oxo-4H-1-aza-5-oxa-2-

thiaindene-3-carbonitrile

AUTHOR(S): Chang, Yong-Goo; Cho, Hyong Soon; Kim, Kyongtae

CORPORATE SOURCE: School of Chemistry and Molecular Engineering, Seoul National University, Seoul, 151-742, S. Korea

SOURCE: Organic Letters (2003), 5(4), 507-510

CODEN: ORLEF7; ISSN: 1523-7060

PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 138:255198

IT 502793-19-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(preparation and substitution of 5,7-dialkyl-4,6-dioxo-4,5,6,7-tetrahydroisothiazolo[3,4,-d]pyrimidine-3-carbonitriles and 6-methyl-4-oxo-4H-1-aza-5-oxa-2-thiaindene-3-carbonitrile)

RN 502793-19-3 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-3-carbonitrile, 4,5,6,7-tetrahydro-5,7-dimethyl-4,6-dioxo- (CA INDEX NAME)

IT 502793-20-6P 502793-21-7P 502793-22-8P 502793-23-9P 502793-24-0P 502793-25-1P

502793-26-2P 502793-27-3P 502793-28-4P 502793-29-5P 502793-30-8P 502793-31-9P 502793-32-0P 502793-33-1P 502793-34-2P

502793-35-3P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation and substitution of 5,7-dialkyl-4,6-dioxo-4,5,6,7-tetrahydroisothiazolo(3,4,-d]pyrimidine3-carbonitriles and 6-methyl-4-oxo-4H-1-aza-5-oxa-2-thiaindene3-carbonitrile)

RN 502793-20-6 CAPLUS

N Isothiazolo[3,4-d]pyrimidine-3-carbonitrile, 5-ethyl-4,5,6,7-tetrahydro-7-methyl-4,6-dioxo- (CA INDEX NAME)

- RN 502793-21-7 CAPLUS
- CN Isothiazolo[3,4-d]pyrimidine-3-carbonitrile, 4,5,6,7-tetrahydro-7-methyl-5-(1-methyl)-4,6-dioxo- (CA INDEX NAME)

- RN 502793-22-8 CAPLUS
- CN Isothiazolo[3,4-d]pyrimidine-3-carbonitrile, 5-butyl-4,5,6,7-tetrahydro-7-methyl-4,6-dioxo- (CA INDEX NAME)

- RN 502793-23-9 CAPLUS
- CN Isothiazolo[3,4-d]pyrimidine-3-carbonitrile, 4,5,6,7-tetrahydro-7-methyl-4,6-dioxo-5-(2-propen-1-yl)- (CA INDEX NAME)

RN 502793-24-0 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-3-carbonitrile, 5-(3-buten-1-yl)-4,5,6,7-tetrahydro-7-methyl-4,6-dioxo- (CA INDEX NAME)

RN 502793-25-1 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-3-carbonitrile, 4,5,6,7-tetrahydro-7-methyl-4,6-dioxo-5-(4-penten-1-yl)- (CA INDEX NAME)

RN 502793-26-2 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-3-carbonitrile, 4,5,6,7-tetrahydro-7-methyl-4,6-dioxo-5-(4-pentyn-1-yl)- (CA INDEX NAME)

- RN 502793-27-3 CAPLUS
- CN Isothiazolo[3,4-d]pyrimidine-3-carbonitrile, 4,5,6,7-tetrahydro-7-methyl-4,6-dioxo-5-(phenylmethyl)- (CA INDEX NAME)

- RN 502793-28-4 CAPLUS
- CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethyl-3-(propylamino)- (CA INDEX NAME)

- RN 502793-29-5 CAPLUS
- CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethyl-3-(2-propen-1-ylamino)- (CA INDEX NAME)

RN 502793-30-8 CAPLUS
CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-[[2-(1H-indol-3-y1)ethyl]amino]-5,7-dimethyl- (CA INDEX NAME)

- RN 502793-31-9 CAPLUS
- CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-(ethylthio)-5,7-dimethyl-(CA INDEX NAME)

- RN 502793-32-0 CAPLUS
- CN Isothiazolo[3,4-d]pyrimidine-3-carboxamide, 4,5,6,7-tetrahydro-5,7-dimethyl-4,6-dioxo- (CA INDEX NAME)

10/141,986

RN 502793-33-1 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-3-carbothioamide, 4,5,6,7-tetrahydro-5,7-dimethyl-4,6-dioxo- (CA INDEX NAME)

RN 502793-34-2 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethyl-3-(2H-tetrazol-5-yl)- (CA INDEX NAME)

RN 502793-35-3 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-3-carboximidic acid, 4,5,6,7-tetrahydro-5,7-dimethyl-4,6-dioxo-, ethyl ester (CA INDEX NAME)

AB 5,7-Dialkyl-4,6-dioxo-4,5,6,7-tetrahydroisothiazolo[3,4-d]pyrimidine-3-carbonitriles, prepared from 6-amino-1,3-dialkyluracils and 4,5-dichloro-5H-1,2,3-dithiazolium chloride (Appel's salt, I), are utilized for the preparation of new derivs. bearing amino, alkylthio, amido, thioamido, tetrazolyl, and carboximidic acid Et ester groups at position 3. Similarly, the reactions of 6-methyl-4-oxo-4H-1-aza-5-oxa-2-thiaindene-3-carbonitrile (II), prepared from 4-amino-6-methyl-2-pyrone and I, with alkyl- and arylamines in DNF at 50°C and reflux afforded various isothiazole derivs. On the other hand, treatment of II with 1,3-diaminopropane in THF at room temperature, followed by chromatog. on silica gel, gave 3-(2-oxopropyl)-6,7,8-trihydro-4H-1-thia-2,5,9-triazacyclopentacyclonome—4,10-dione in 59% yield.

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/141.986

L6 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2002:890751 CAPLUS

DOCUMENT NUMBER: 138:287618

TITLE: Ring closure reactions of β -nitroso-,

 β -acyl-, and β -thiocarbamoyl- α , β -unsaturated sulfilimines. Synthesis of

[1,2,5]oxadiazolo[3,4-d]-, isoxazolo[3,4-d]-, and

isothiazolo[3,4-d]pyrimidine derivatives from uracils

AUTHOR(S): Matsumoto, Nobuaki; Takahashi, Masahiko
CORPORATE SOURCE: Faculty of Engineering, Department of Materials

Science, Ibaraki University, Hitachi, Ibaraki,

316-8511, Japan SOURCE: Tetrahedron (2002), 58(50), 10073-10079

CODEN: TETRAB; ISSN: 0040-4020

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 138:287618 IT 61851-90-9P 70425-00-2P 73123-40-7P

506437-27-0P 506437-28-1P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation and ring closure reactions of β -nitroso-, β -acyl-, and β -thiocarbamoyl- α , β -unsatd. sulfilimines)

RN 61851-90-9 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethyl-3-(methylamino)- (CA INDEX NAME)

RN 70425-00-2 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethyl-3-[(phenylmethyl)amino]- (CA INDEX NAME)

RN 73123-40-7 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethy1-3-

(phenylamino) - (CA INDEX NAME)

- RN 506437-27-0 CAPLUS
- CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethyl-3-[(4-methylphenyl)amino]- (CA INDEX NAME)

- RN 506437-28-1 CAPLUS
- CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-[(4-chlorophenyl)amino]-5,7-dimethyl- (CA INDEX NAME)

- AB 1,3-Dialkyl-6-chlorouraciis were treated with S,S-diphenylsulfilimine to give N-(1,3-dialkyluracii-6-yl)-8,5-diphenylsulfilimines. The uracilylsulfilimines were nitrosated, acylated, or thiocarbamoylated to give N-(5-nitroso-, 5-acyl-, or 5-thiocarbamoyluracii-6-yl)sulfilimines, resp. These conjugated sulfilimines were cyclized by thermolysis or photolysis to [1,2,5]oxadiazolo[3,4-d] isoxazolo[3,4-d] or isothiazolo[3,4-d]pyrimidine derive.
- REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 23 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1997:213322 CAPLUS DOCUMENT NUMBER: 126:293309

ORIGINAL REFERENCE NO.: 126:56801a,56804a

Reactivities of 6-amino-1,3-dimethy1-5-TITLE:

thioformyluracil toward nucleophiles and its

application to synthesis of pyrido[2,3-d]pyrimidines AUTHOR(S): Hirota, Kosaku; Kubo, Keiko; Sajiki, Hironao

CORPORATE SOURCE: Laboratory of Medicinal Chemistry, Gifu Pharmaceutical

University, Gifu, 502, Japan

SOURCE: Chemical & Pharmaceutical Bulletin (1997), 45(3),

542-544

CODEN: CPBTAL; ISSN: 0009-2363

PUBLISHER: Pharmaceutical Society of Japan

DOCUMENT TYPE: Journal

LANGUAGE: English

CASREACT 126:293309 OTHER SOURCE(S):

181465-22-5P

RL: SPN (Synthetic preparation); PREP (Preparation)

(reactions of thioformyluracil derivative with nucleophiles)

181465-22-5 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethyl- (CA INDEX NAME)

AB The reaction of the 5-thioformyluracil I (X = S) with phenylhydrazine and various amines readily afforded the hydrazone II (R = NHPh) and Schiff bases II (R = OH, Me, Ph), resp. Further, carbanions and Wittig reagents reacted with I (X = S) to give pyrido[2,3-d]pyrimidines III [R1 = cyano, CO2Et, R2 = NH2; R1 = CO2Et, R2 = OH; R1 = H, R2 = NH2]. The corresponding 5-formyluracil I (X = O) possessed much lower reactivities toward these nucleophiles than did I (X = S).

REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/141.986

L6 ANSWER 5 OF 23 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1996:457576 CAPLUS DOCUMENT NUMBER: 125:221422

ORIGINAL REFERENCE NO.: 125:41381a,41384a

Stable thioaldehydes: synthesis, structure assignment, TITLE:

and stability of 6-amino-5-thioformyluracils

AUTHOR(S): Hirota, Kosaku; Sajiki, Hironao; Kubo, Keiko; Kido, Masaru: Nakagawa, Kazuvuki

CORPORATE SOURCE: Lab. of Medicinal Chemistry, Gifu Pharmaceutical

Univ., Gifu, 502, Japan

SOURCE: Tetrahedron (1996), 52(30), 9971-9978

CODEN: TETRAB; ISSN: 0040-4020

PUBLISHER: Elsevier DOCUMENT TYPE: Journal LANGUAGE . English 181465-22-5P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation and properties of (amino)dioxopyrimidinecarbothioaldehydes)

RN 181465-22-5 CAPLUS

CN Isothiazolo[3,4-d]pvrimidine-4,6(5H,7H)-dione, 5,7-dimethyl- (CA INDEX NAME)

GI

$$c=s$$

Stable 6-amino-5-thiofomyluracils (i.e., dioxopyrimidinecarbothioaldehydes AB) I (R1 = Me, Ph, Bu, etc.; R2 = Me, Pr) were synthesized starting from 6-amino-1,3-disubstituted uracils in 23-98% yields. According to the x-ray crystal structure, although I (R1 = Ph, R2 = Me) possessed reasonable double-bond character of the C=S bond, the length of C=S bond in I (R1 = Ph, R2 = Me) is longer than that in of kinetically stabilized thioaldehydes due to the mesomeric effect of the 6-amino group.

10/141,986

L6 ANSWER 6 OF 23 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1983:107682 CAPLUS

DOCUMENT NUMBER: 98:107682

ORIGINAL REFERENCE NO.: 98:16429a,16432a

TITLE: Glucoside derivatives
PATENT ASSIGNEE(S): Ogura, Haruo, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 57146796 PRIORITY APPLN. INFO.:	A	19820910	JP 1981-32498 JP 1981-32498	19810309 19810309
TT 80681-66-9P			01 4304 00130	************

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of) RN 80681-66-9 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethyl-3-[[2,3,6-tri-0-acetyl-4-O-(2,3,4,6-tetra-0-acetyl-β-D-galactopyranosyl]-β-D-glucopyranosyl]-βmino[-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

GI

AB Nineteen glycoside derivs. I [R1 = H, CH2OH, CH2OAc; R2 = Ac, Q; R3 = NNCSNHCH2CH2OH, NHCSNHSNESNH2, Q1, Q2, etc.] were prepared by reaction of II with the corresponding amino compds. Thus, a mixture of 389 mg 6-D-II (R1 = CH2OAc, R2 = Ac) and 116 mg ClCH2CH2NH2.HCl in pyridine was stirred 3 h at room temperature to give 95% III.

10/141,986

ANSWER 7 OF 23 CAPLUS COPYRIGHT 2008 ACS on STN 1.6 ACCESSION NUMBER: 1983:72644 CAPLUS

DOCUMENT NUMBER: 98:72644

ORIGINAL REFERENCE NO.: 98:11139a,11142a

Syntheses of disaccharide isothiocyanates and

nucleoside related compounds

AUTHOR(S): Ogura, Haruo; Takahashi, Hiroshi; Kobayashi, Minae CORPORATE SOURCE: Sch. Pharm. Sci., Kitasato Univ., Tokyo, 108, Japan

SOURCE: Nippon Kagaku Kaishi (1982), (10), 1673-81

CODEN: NKAKB8; ISSN: 0369-4577

DOCUMENT TYPE: Journal

LANGUAGE: Japanese

тт 80681-66-9P 84597-66-0P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

DM 80681-66-9 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethyl-3-[[2,3,6-tri- $O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-\beta-D-galactopyranosyl)-\beta-D$ glucopyranosyllamino|- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

- RN 84597-66-0 CAPLUS
- CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethyl-3-[[2,3,6-tri- $0-acetv1-4-0-(2,3,4,6-tetra-0-acetv1-\alpha-D-glucopyranosv1)-\beta-D$ glucopyranosyllaminol- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

AB Modified nucleoside analogs were prepared starting from hepta-O-acetyl-β-lactosyl isothiocyanate (I), hepta-O-acetyl-β-maltosyl isothiocyanate (II), and hepta-O-acetyl-β-cellobiosyl isothiocyanate (III). I-III reacted with acylhydrazines to give RNHGSNHNHCO(CH2)nMe (R = disaccharide residue), which afforded triazole disaccharides (IV) by treatment with Ac2O-H3PO4 through cyclodehydration reaction. Reactions of I-III with 6-amino-1,3-dimethyluracid gave disaccharide aminoisothiazolopyrimidines (V) in good yields. Treatment of I-III with 2-amino-2-deoxy-β-D-glucopyranose yielded diglycosylthioureas. Reactions of I-III with chloroethylamine hydrochloride under basic conditions afforded disaccharide imidazolidinethiones (VI) instead of N-glycosyl-N'-chloroethylthioureas.

10/141,986

L6 ANSWER 8 OF 23 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1982:85908 CAPLUS DOCUMENT NUMBER: 96:85908

DOCUMENT NUMBER: 96:85908

ORIGINAL REFERENCE NO.: 96:14119a,14122a

TITLE: Synthetic O-glycosyl nucleoside analogs

AUTHOR(S): Ogura, Haruo; Furuhata, Fimio; Iwaki, Kazuo;

Takahashi, Hiroshi

CORPORATE SOURCE: Sch. Pharm. Sci., Kitasato Univ., Tokyo, 108, Japan

SOURCE: Nucleic Acids Symposium Series (1981), 10, 23-6

CODEN: NACSD8; ISSN: 0261-3166

DOCUMENT TYPE: Journal LANGUAGE: English

IT 80681-66-9P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

RN 80681-66-9 CAPLUS

Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethyl-3-[[2,3,6-tri-0-acetyl-4-0-(2,3,4,6-tetra-0-acetyl-B-D-galactopyranosyl)-B-D-

glucopyranosyllamino|- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

G:

CN

AB O-Glycosyl- and O-neuraminoylnucleosides, e.g., I and II, were prepared I was prepared by condensation of 1,6-anhydro-D-lactose hexaacetate with trimethylsilylated 5-fluorouracil in the presence of SnCl4. II was prepared by reaction of Me 2-chloro-4,7,8,9-tetra-O-acetyl-N-acetyl-D-neuraminate with 2',3'-O-isopropylidene-5-fluorouridine.

10/141.986

ANSWER 9 OF 23 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1980:128845 CAPLUS

DOCUMENT NUMBER: 92:128845

ORIGINAL REFERENCE NO.: 92:21015a,21018a

TITLE: Enamino carbodithioates. III. Methyl

6-aminouracil-5-carbodithioates. 3. Synthesis and reactions of 3-methylthioisothiazolo[3,4-d]-pyrimidine-

4,6(5H,7H)-diones AUTHOR(S): Okuda, Hiroto; Tominaga, Yoshinori; Matsuda, Yoshiro;

Kobayashi, Goro

CORPORATE SOURCE: Fac. Pharm. Sci., Nagasaki Univ., Nagasaki, 852, Japan

SOURCE: Yakugaku Zasshi (1979), 99(10), 989-92 CODEN: YKKZAJ; ISSN: 0031-6903

DOCUMENT TYPE: Journal

LANGUAGE: Japanese

73123-41-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reactions with amines)

RN 73123-41-8 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethyl-3-(methylsulfonyl) - (CA INDEX NAME)

70425-00-2P 70425-05-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and substitution reactions of)

RN 70425-00-2 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethyl-3-[(phenylmethyl)amino]- (CA INDEX NAME)

RN 70425-05-7 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-(cyclohexylamino)-5,7dimethyl- (CA INDEX NAME)

- IT 52903-30-7P 52903-33-0P 61851-90-9P 70425-00-2P 70425-01-3P 70425-02-4P 70425-03-5P 70425-03-6P 70425-05-7P 70425-05-7P 70425-11-5P 70425-11-9P 70425-11-9P 70425-13-7P 73123-40-7P RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
- RN 52903-30-7 CAPLUS
 CN Isothiazolo(3,4-d)pyrimidine-4,6(5H,7H)-dione, 3-amino-5,7-dimethyl- (CA INDEX NAME)

- RN 52903-33-0 CAPLUS
- CN Benzenesulfonamide, 4-methyl-N-(4,5,6,7-tetrahydro-5,7-dimethyl-4,6-dioxoisothiazolo[3,4-d]pyrimidin-3-yl)- (CA INDEX NAME)

- RN 61851-90-9 CAPLUS
- CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethyl-3-(methylamino)- (CA INDEX NAME)

RN 70425-00-2 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethy1-3[(phenylmethy1)amino]- (CA INDEX NAME)

RN 70425-01-3 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-[(2-hydroxypropy1)amino]-5,7-dimethyl- (CA INDEX NAME)

RN 70425-02-4 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethyl-3-(1-piperidinyl)- (CA INDEX NAME)

RN 70425-03-5 CAPLUS
CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethyl-3-(4morpholinyl)- (CA INDEX NAME)

RN 70425-04-6 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethyl-3-(1-pyrrolidinyl)- (CA INDEX NAME)

RN 70425-05-7 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-(cyclohexylamino)-5,7-dimethyl- (CA INDEX NAME)

RN 70425-06-8 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5-methyl-7-phenyl-3-(1-pyrrolidinyl)- (CA INDEX NAME)

RN 70425-07-9 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5-methyl-7-phenyl-3-[(phenylmethyl)amino]- (CA INDEX NAME)

RN 70425-10-4 CAPLUS

CN Acetamide, N-[4-[[(4,5,6,7-tetrahydro-5,7-dimethyl-4,6-dioxoisothiazolo[3,4-d]pyrimidin-3-yl)amino]sulfonyl]phenyl]- (CA INDEX NAME)

RN 70425-11-5 CAPLUS CN Isothiazol[3,4-d]pyrimidine-3-acetic acid, α-cyano-4,5,6,7tetrahydro-5,7-dimethyl-4,6-dioxo-, methyl ester (CA INDEX NAME)

RN 70425-12-6 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-3-acetic acid, α-cyano-4,5,6,7tetrahydro-5-methyl-4,6-dioxo-7-phenyl-, methyl ester (CA INDEX NAME)

RN 70425-13-7 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-3-acetonitrile, 4,5,6,7-tetrahydro-5,7-dimethyl-4,6-dioxo-α-(phenylsulfonyl)- (CA INDEX NAME)

RN 73123-40-7 CAPLUS
CN Isothazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethyl-3(phenylamino) - (CA INDEX NAME)

GΙ

AB 3-Methylthioisothiazolopyrimidinediones I (R = Me, Ph) were prepared by treatment with Me 6-aminouracil-5-carbodithioates, prepared by the reaction of 6-aminouracil with Cs2 and Me2S04 in the presence of alkali, with iodine in Me2S0 in a good yield. The reaction of I with amines, amides, and active methylene compds, gave the corresponding substituted products.

10/141.986

ANSWER 10 OF 23 CAPLUS COPYRIGHT 2008 ACS on STN 1.6

ACCESSION NUMBER: 1980:22750 CAPLUS DOCUMENT NUMBER: 92:22750

ORIGINAL REFERENCE NO.: 92:3877a,3880a

Studies on heterocyclic compounds. Part XXIX. A TITLE: one-step synthesis of glycosylaminoisothiazolo[3,4-

d]pvrimidines and glvcosvlaminoisothiazoles

AUTHOR(S): Takahashi, Hiroshi; Nimura, Norivuki; Ogura, Haruo

CORPORATE SOURCE: Sch. Pharm, Sci., Kitasato Univ., Tokvo, 108, Japan SOURCE: Chemical & Pharmaceutical Bulletin (1979), 27(5),

1147-52

CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE: Journal LANGUAGE: English

тт 58911-57-2P 62374-42-9P 62374-43-0P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of) 58911-57-2 CAPLUS

RN

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethyl-3-[(2,3,4,6tetra-O-acetv1-β-D-glucopyranosyl)aminol- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

- RN 62374-42-9 CAPLUS
- CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethyl-3-[(2,3,4-tri-O-acetyl-α-D-arabinopyranosyl)amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

- RN 62374-43-0 CAPLUS
- Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethyl-3-[(2,3,5-tri-O-benzoyl-β-D-ribofuranosyl)amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

GI

AB The reaction of glycosyl isothiocyanate I with 2-aminopyridine or 2-amino-4-picoline gave N-glycosyl-N'-(2-pyridyl) thiourea and N-glycosyl-N'-(4-methyl-2-pyridyl) thiourea, resp., in good yields; cyclized products were not obtained. On the other hand, the reaction of glycosyl isothiocyanates I, II, and III with MeC(NH2):CHCO2Et gave MeC(NH2):CJCSWHR)CO2Et (R = glycosyl) and nucleoside analogs IV (R = glycosyl). Similar reaction of I-III with 6-amino-1,3-dimethyluracil gave nucleoside analogs V.

L6 ANSWER 11 OF 23 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1979:575307 CAPLUS DOCUMENT NUMBER: 91:175307

ORIGINAL REFERENCE NO.: 91:28279a,28282a

Enamino carbodithioates. I. Methyl TITLE:

6-aminouracil-5-carbodithioates. 1. Synthesis and

reactions

AUTHOR(S): Tominaga, Yoshinori; Machida, Tsuyoshi; Okuda, Hiroto;

Matsuda, Yoshiro; Kobayashi, Goro

CORPORATE SOURCE: Fac. Pharm. Sci., Nagasaki Univ., Nagasaki, 852, Japan SOURCE: Yakugaku Zasshi (1979), 99(5), 515-20

CODEN: YKKZAJ; ISSN: 0031-6903

DOCUMENT TYPE: Journal

LANGUAGE: Japanese OTHER SOURCE(S): CASREACT 91:175307

ΙT 71266-55-2P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

71266-55-2 CAPLUS RN

Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3,3'-dithiobis[5,7-dimethyl-(9CI) (CA INDEX NAME)

CN

AB The 6-aminouracils I (R = Me, Ph, Rl = H) treated with CS2 and Me2SO4 in NaOH-DMSO gave dithiocarboxylates I (R = MePh; Rl = CS2Me). An excess of CS2 in the previous reaction with I (R = Me, Rl = H) gave the pyrimido{4,5-d}[1,3]thiazine II in good yield. The reaction of I (R = Me, Ph; Rl = CS2Me) and R22NH (R2 = H, NH2, Me, PhCH2, cyclohexyl, morpholino, HOCH2CH2, (EtO)2CHCH2), yielded thiocarbamoyluracils I (R = Me, Ph, Rl = C(S)NR22] in 31-91% yields I [R = Me, Rl = C(S)SMe] and HCONH2 reacted to yield III. Also prepared were pyrimido[4,5-d]pyrimidines IV (R2 = H, Me; X = S) and IV (R2 = PhCH2, X = O) from the reaction of I [R = Me, Rl = C(S)NR22, R2 = H, Me, PhCH2] with Ac2O.

10/141.986

L6 ANSWER 12 OF 23 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1979:439764 CAPLUS

DOCUMENT NUMBER: 91:39764

ORIGINAL REFERENCE NO.: 91:6497a,6500a

TITLE: Syntheses of nucleoside analogs using glycosyl

isothiocyanate

AUTHOR(S): Ogura, Haruo; Takahashi, Hiroshi

CORPORATE SOURCE: Sch. Pharm. Sci., Kitasato Univ., Tokyo, Japan SOURCE: Tennen Yuki Kagobutsu Toronkai Koen Yoshishu, 21st

(1978), 221-8. Hokkaido Daigaku Nogakubu: Sapporo,

Japan. CODEN: 39NOAF

DOCUMENT TYPE: Conference LANGUAGE: Japanese

IT 58911-57-2P 62374-42-9P 62374-43-0P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

RN 58911-57-2 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethyl-3-[(2,3,4,6-tetra-0-acetyl-B-D-glucopyranosyl)amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

- RN 62374-42-9 CAPLUS
- CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethyl-3-[(2,3,4-tri-0-acetyl-α-D-arabinopyranosyl)amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

- RN 62374-43-0 CAPLUS
- CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethyl-3-[(2,3,5-tri-0-benzoyl- β -D-ribofuranosyl)amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

GI

AB Various nucleoside analogs containing isothiazole, isothiazolopyrimidine, fused imidazole, pyrimidothiadiazine, pyrazolopyrimidine, triazole, or triazine moieties were prepared by using RNCS (R = I, II, or III). E.g., reaction of RNCS and MeC(NH2):CHCO2Et gave (glycosylamino)isothiazoles IV and MeC(NH2):CY (F. V readily cyclized to IV.

10/141.986

L6 ANSWER 13 OF 23 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1979:405191 CAPLUS

DOCUMENT NUMBER: 91:5191

ORIGINAL REFERENCE NO.: 91:975a,978a

TITLE: Enamino dithiocarboxylates. II. Methyl

6-aminouracil-5-dithiocarboxylates. 2. Synthesis and reactions of 3-methylthioisothiazolo[3,4-d]pyrimidine-

4,6(5H,7H)-diones

AUTHOR(S): Okuda, Hiroto; Tominaga, Yoshinori; Matsuda, Yoshiro;

Kobayashi, Goro

CORPORATE SOURCE: Fac. Pharm. Sci., Nagasaki Univ., Nagasaki, 852, Japan

SOURCE: Heterocycles (1979), 12(4), 485-8 CODEN: HTCYAM; ISSN: 0385-5414

CODEN: HTCYAM; ISSN: 0385-5414
DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 91:5191

IT 70424-98-5P 70424-99-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and nucleophilic substitutions of)

RN 70424-98-5 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethyl-3-(methylthio)-(CA INDEX NAME)

RN 70424-99-6 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5-methyl-3-(methylthio)-7-phenyl- (CA INDEX NAME)

IT 52903-33-0P 61851-90-9P 70425-00-2P 70425-01-3P 70425-02-4P 70425-03-5P 70425-04-6P 70425-05-9P 70425-06-8P 70425-07-9P 70425-10-4P 70425-11-5P 70425-12-6P 70425-13-7P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RN 52903-33-0 CAPLUS

CN Benzenesulfonamide, 4-methyl-N-(4,5,6,7-tetrahydro-5,7-dimethyl-4,6-dioxoisothiazolo[3,4-d]pyrimidin-3-yl)- (CA INDEX NAME)

RN 61851-90-9 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethyl-3-(methylamino)- (CA INDEX NAME)

RN 70425-00-2 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethyl-3-[(phenylmethyl)amino]- (CA INDEX NAME)

RN 70425-01-3 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-[(2-hydroxypropy1)amino]5,7-dimethyl- (CA INDEX NAME)

RN 70425-02-4 CAPLUS
CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethyl-3-(1-piperidinyl)- (CA INDEX NAME)

RN 70425-03-5 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethyl-3-(4-morpholinyl)- (CA INDEX NAME)

RN 70425-04-6 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethyl-3-(1pyrrolidinyl)- (CA INDEX NAME)

RN 70425-05-7 CAPLUS
CN Isothiazolo(3,4-d)pyrimidine-4,6(5H,7H)-dione, 3-(cyclohexylamino)-5,7dimethyl- (CA INDEX NAME)

RN 70425-06-8 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5-methyl-7-phenyl-3-(1-pyrrolidinyl)- (CA INDEX NAME)

RN 70425-07-9 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5-methyl-7-phenyl-3-[(phenylmethyl)amino]- (CA INDEX NAME)

RN 70425-10-4 CAPLUS

CN Acetamide, N-[4-[[(4,5,6,7-tetrahydro-5,7-dimethyl-4,6-dioxoisothiazolo[3,4-d]pyrimidin-3-yl)amino]sulfonyl]phenyl]- (CA INDEX NAME)

RN 70425-11-5 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-3-acetic acid, α-cyano-4,5,6,7-tetrahydro-5,7-dimethyl-4,6-dioxo-, methyl ester (CA INDEX NAME)

RN 70425-12-6 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-3-acetic acid, α -cyano-4,5,6,7-tetrahydro-5-methyl-4,6-dioxo-7-phenyl-, methyl ester (CA INDEX NAME)

RN 70425-13-7 CAPLUS
CN Isothiazolo[3,4-d]pyrimidine-3-acetonitrile, 4,5,6,7-tetrahydro-5,7-dimethyl-4,6-dioxo-α-(phenylsulfonyl)- (CA INDEX NAME)

GI

AB Isothiazolopyrimidinediones I (R = Me, Ph; R1 = SMe) were obtained by treating uracils II (R2 = H) with CS2 and Me2SO4 and cyclizing II (R2 = CS2Me) with iodine. I (R1 = SMe) underwent nucleophilic substitution to give I [R1 = amino, CH(CN)CO2Me, CH(CN)SO2Ph].

10/141.986

RN

L6 ANSWER 14 OF 23 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1978:580279 CAPLUS DOCUMENT NUMBER: 89:180279

DOCUMENT NUMBER: 89:1802/9

ORIGINAL REFERENCE NO.: 89:28019a,28022a

TITLE: Syntheses of modified nucleoside analogs with

isothiocyanates

AUTHOR(S): Ogura, Haruo; Takahashi, Hiroshi

CORPORATE SOURCE: Sch. Pharm. Sci., Kitasato Univ., Tokyo, Japan

SOURCE: Symp. Heterocycl., [Pap.] (1977), 135-40. Editor(s):

Kametani, Tetsuji. Sendai Inst. Heterocycl. Chem.: Sendai, Japan.

Sendai, Japan. CODEN: 38WUAV

DOCUMENT TYPE: Conference LANGUAGE: English

52903-30-7DP, glycosyl derivs.

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of) 52903-30-7 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-amino-5,7-dimethyl- (CA INDEX NAME)

AB Syntheses of nucleoside analogs via reactions of glycosyl isothiocyanate and glyconyl isothiocyanate with amino acids, enamines, and diamines are outlined.

10/141.986

L6 ANSWER 15 OF 23 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1977:140380 CAPLUS DOCUMENT NUMBER: 86:140380

DUCUMENT NUMBER: 86:140380

ORIGINAL REFERENCE NO.: 86:22061a,22064a

TITLE: Reaction of enamine with D-glycosyl and D-gluconyl

isothiocyanate

AUTHOR(S): Ogura, Haruo; Takahashi, Hiroshi; Takeda, Kazuyoshi;

Nimura, Noriyuki

CORPORATE SOURCE: Sch. Pharm. Sci., Kitasato Univ., Tokyo, Japan SOURCE: Nucleic Acids Research, Special Publication (1976),

2(Symp. Nucleic Acids Chem., 4th, 1976), 7-10

CODEN: NARPD6; ISSN: 0309-1872

DOCUMENT TYPE: Journal

LANGUAGE: English

IT 58911-57-2P 62374-42-9P 62374-43-0P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

RN 58911-57-2 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethyl-3-[(2,3,4,6-tetra-0-acetyl-B-D-glucopyranosyl)amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

- RN 62374-42-9 CAPLUS
- CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethyl-3-[(2,3,4-tri-0-acetyl-α-D-arabinopyranosyl)amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

- RN 62374-43-0 CAPLUS
- CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethyl-3-[(2,3,5-tri-0-benzoyl- β -D-ribofuranosyl)amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

GI

AB Treatment of RNCS (I; R = tetra-O-acetyl-B-D-glucopyranosyl, tri-O-encetyl-G-D-arabinopyranosyl, tri-O-benzyl-B-D-ribofuranosyl) with H2NCMe:CHCO2Et (II) in THF at room temperature gave isothazoles III and H2NCMe:CHCO2Et (S)MHR, and I cyclized with 6-amino-1,3-dimethyluracil (IV) to give thiazolopyrimidines V. Treatment of penta-O-acetyl-D-gluconyl isothiocyanate with II and IV gave VI and VII (R1 = penta-O-acetyl-D-gluconyl).

10/141.986

L6 ANSWER 16 OF 23 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1977:89864 CAPLUS DOCUMENT NUMBER: 86:89864

ORIGINAL REFERENCE NO.: 86:14197a,14200a

TITLE: Isothiazolo[3,4-d]pyrimidines

INVENTOR(S): Furukawa, Yoshiyasu; Shima, Shunsuke

PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 51091294	A	19760810	JP 1975-16658	19750207
PRIORITY APPLN. INFO.:			JP 1975-16658 A	19750207

IT 60663-75-4P 60663-76-5P 60663-78-7P

60663-79-8P 60663-80-1P 60663-83-4P 60663-84-5P 61851-90-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and alkylation of)

RN 60663-75-4 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-(ethylamino)-7-(phenylmethyl)- (CA INDEX NAME)

RN 60663-76-5 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-diethyl-3-(methylamino)-(CA INDEX NAME)

RN 60663-78-7 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-[(4-chlorophenyl)amino]-7-methyl- (CA INDEX NAME)

RN 60663-79-8 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 7-(4-chlorophenyl)-3-(ethylamino)- (CA INDEX NAME)

RN 60663-80-1 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 7-(2-methoxyethyl)-3(phenylamino)- (CA INDEX NAME)

RN 60663-83-4 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-(methylamino)-7-phenyl-(CA INDEX NAME)

RN 60663-84-5 CAPLUS
CN Isothiazolo [3,4-d]pyrimidine-4,6(5H,7H)-dione, 7-(2-methylpropyl)-3[(phenylmethyl)amino]- (CA INDEX NAME)

- RN 61851-90-9 CAPLUS
- CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethyl-3-(methylamino)- (CA INDEX NAME)

- IT 56540-86-4P 56540-98-8P 56541-01-6P 56541-02-7P 56541-03-8P 56541-04-9P 56541-05-0P 60663-90-3P 61851-88-5P RI: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
- RN 56540-86-4 CAPLUS
- CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-(dimethylamino)-5,7-diethyl- (CA INDEX NAME)

RN 56540-98-8 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-(dimethylamino)-5,7-dimethyl- (CA INDEX NAME)

RN 56541-01-6 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-[(4-chlorophenyl)methylamino]-5,7-dimethyl- (CA INDEX NAME)

RN 56541-02-7 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-(ethylmethylamino)-5-methyl-7-(phenylmethyl)- (CA INDEX NAME)

RN 56541-03-8 CAPLUS
CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-(dimethylamino)-5-methyl7-phenyl- (CA INDEX NAME)

- RN 56541-04-9 CAPLUS
- CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 7-(2-methoxyethyl)-5-methyl-3-(methylphenylamino)- (CA INDEX NAME)

- RN 56541-05-0 CAPLUS
- CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 7-(4-chlorophenyl)-3-(diethylamino)-5-ethyl- (CA INDEX NAME)

RN 60663-90-3 CAPLUS
CN Isothiazolo(3,4-d]pyrimidine-4,6(5H,7H)-dione, 5-methyl-3[methyl(phenylmethyl)amino]-7-(2-methylpropyl)- (CA INDEX NAME)

RN 61851-88-5 CAPLUS
CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,6H)-dione, 5,7-diethyl-3[methyl(phenylmethyl)amino]- (9CI) (CA INDEX NAME)

GI

AB Isothiazolo(3,4-d)pyrimidines I (R1, R3 = alkyl, aryl, R2, R4 = alkyl, Z = 0, S) were prepared by reaction of II (R5, R6 = H, alkyl, aryl) with R3NCS, cyclization of the resulting III, and alkylation of the resulting IV. I had adenosine 3',5'-cyclic phosphate phosphodiesterase-inhibiting activity and are useful as antiinflammatory agents and sedatives (no data). Thus, 7.32 g II (R5 = R6 = Et, Z = 0) in pyridine was refluxed with 8 ml MeNCS 24 h to give 6.74 g III (R3 = Me, R5 = R6 = Et, Z = 0) (V). Stirring 5.8 g V in AcOBt with 3.4 ml Br 1 h at room temperature gave 5 g IV (R3 = Me, R5 = R6 = Et, Z = 0) (VI). Stirring a mixture of 5 g VI, 5 g X2CO3, and 5 ml MeI in DMF 16 h at room temperature gave 4 g I (R1 = R2 = Et, R3 = R4 = Me, Z = 0). I also prepared were (R1, R2, R3, R4, Z given): Me, Me, Me, Me, O; p-ClC6H4, Mt, Et, Et, C) Me, Me, Me, C); PhOCC6H4, Et, Et, Et, C) Me, Me, Me, C); PhOCC6H4, Me, Et, Et, C) Me, Me, Me, O; and Et, Et, PhCH2, Me, O

ANSWER 17 OF 23 CAPLUS COPYRIGHT 2008 ACS on STN 1976:560012 CAPLUS

ACCESSION NUMBER: DOCUMENT NUMBER:

85:160012

ORIGINAL REFERENCE NO.: 85:25613a,25616a

Fused pyrimidines. II. Synthesis and oxidation of

3-aminoisothiazolo[3,4-d]pyrimidines

AUTHOR(S): Furukawa, Yoshivasu; Shima, Shunsuke

CORPORATE SOURCE: Cent. Res. Div., Takeda Chem. Ind., Ltd., Osaka, Japan

SOURCE: Chemical & Pharmaceutical Bulletin (1976), 24(5),

979-86 CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 85:160012

60663-75-4P 60663-76-5P 60663-78-7P 60663-79-8P 60663-83-4P 60663-84-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and alkylation of) RN 60663-75-4 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-(ethylamino)-7-(phenylmethyl) - (CA INDEX NAME)

RN 60663-76-5 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-diethyl-3-(methylamino)-(CA INDEX NAME)

60663-78-7 CAPLUS RN

Isothiazolo[3,4-d]pvrimidine-4,6(5H,7H)-dione, 3-[(4-chlorophenyl)amino]-7-CN methyl- (CA INDEX NAME)

RN 60663-79-8 CAPLUS
CN Isothiazolo [3,4-d]pyrimidine-4,6(5H,7H)-dione, 7-(4-chlorophenyl)-3-(ethylamino)- (CA INDEX NAME)

RN 60663-83-4 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-(methylamino)-7-phenyl-(CA INDEX NAME)

RN 60663-84-5 CAPLUS

Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 7-(2-methylpropyl)-3-[(phenylmethyl)amino]- (CA INDEX NAME)

CN

IT 56540-86-4P 56541-01-6P 56541-02-7P 56541-03-8P 56541-04-9P 56541-05-0P 60663-77-6P 60663-80-1P 60663-81-2P 60663-82-3P 60663-88-9P 60663-88-9P 60663-88-9P 60663-89-0P 60663-90-3P 60700-23-4P RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RN 56540-86-4 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-(dimethylamino)-5,7-diethyl- (CA INDEX NAME)

RN 56541-01-6 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-[(4-chlorophenyl)methylamino]-5,7-dimethyl- (CA INDEX NAME)

RN 56541-02-7 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-(ethylmethylamino)-5-methyl-7-(phenylmethyl)- (CA INDEX NAME)

RN 56541-03-8 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-(dimethylamino)-5-methyl-7-phenyl- (CA INDEX NAME)

RN 56541-04-9 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 7-(2-methoxyethyl)-5-methyl-3-(methylphenylamino)- (CA INDEX NAME)

RN 56541-05-0 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 7-(4-chlorophenyl)-3-(diethylamino)-5-ethyl- (CA INDEX NAME)

RN 60663-77-6 CAPLUS
CN Isothiazolo(3,4-d)pyrimidine-4,6(5H,7H)-dione, 3-(ethylamino)- (9CI) (CA INDEX NAME)

RN 60663-80-1 CAPLUS
CN Isothiazolo(3,4-d)pyrimidine-4,6(5H,7H)-dione, 7-(2-methoxyethy1)-3-(phenylamino)- (CA INDEX NAME)

RN 60663-81-2 CAPLUS
CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-diethyl-3-[(4-hydroxyphenyl)amino]- (CA INDEX NAME)

- RN 60663-82-3 CAPLUS
- CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-diethyl-3-[(4-hydroxyphenyl)amino]-, dihydrobromide (9CI) (CA INDEX NAME)

●2 HBr

- RN 60663-85-6 CAPLUS
- CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-[(4-chlorophenyl)amino]-5,7-diethyl- (CA INDEX NAME)

- RN 60663-86-7 CAPLUS
- CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-(ethylamino)-7-(4-methoxyphenyl)- (CA INDEX NAME)

RN 60663-87-8 CAPLUS CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-(ethylamino)-5-methyl-7-(phenylmethyl)- (CA INDEX NAME)

RN 60663-88-9 CAPLUS
CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 7-(4-chlorophenyl)-5-ethyl3-(ethylamino)- (CA INDEX NAME)

RN 60663-89-0 CAPLUS CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5-methyl-3-(methylamino)-7-phenyl- (CA INDEX NAME)

RN 60663-90-3 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5-methyl-3-[methyl(phenylmethyl)amino]-7-(2-methylpropyl)- (CA INDEX NAME)

RN 60700-23-4 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-diethyl-3-[(4-hydroxyphenyl)amino]-, monohydrobromide (9CI) (CA INDEX NAME)

● HBr

GI

AB The 6-aminouraciis I (R1 = PhCHZ, Et, H, Me, p-ClC6H4, MeOCHZCHZ, Ph. MeCCHZCHZ, p-MeOCH44, R2 = H, Et) reacted with SCNR3 (R3 = Et, Me, C6H4Cl-p, Ph, C6H4CH-p, CHZPh) to give the thiocarbamoyluraciis II, which were oxidized with Br or HZO2 to give the isothiazolopyrimidinediones III, whose alkylation with R4I (R4 = Me, Et) gave the (disubstituted amino)isothiazolopyrimidines IV. Further oxidation of III or IV (R1 = R2 = Et, R3 = R4 = Me) with HZO2 gave the hydroxybarbituric acid V. Aminoisothiazolopyrimidines are potential cyclic nucleotide phosphodiesterase inhibitors.

ANSWER 18 OF 23 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1976:560011 CAPLUS

DOCUMENT NUMBER: 85:160011

ORIGINAL REFERENCE NO.: 85:25613a,25616a

Fused pyrimidines. I. A one-step synthesis of TITLE:

3-aminoisothiazolo[3,4-d]pyrimidines from 6-aminouracils and Vilsmeier reagents

AUTHOR(S): Furukawa, Yoshivasu; Mivashita, Osamu; Shima, Shunsuke CORPORATE SOURCE: Cent. Res. Div., Takeda Chem. Ind., Ltd., Osaka, Japan

SOURCE: Chemical & Pharmaceutical Bulletin (1976), 24(5),

970 - 8

CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 85:160011

56540-86-4P 56540-88-6P 56540-89-7P 56540-91-1P 56540-92-2P 56540-98-8P

56540-99-9P 56541-00-5P 60663-76-5P 60664-03-1P 60664-09-7P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

RN 56540-86-4 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-(dimethylamino)-5,7diethyl- (CA INDEX NAME)

- RN 56540-88-6 CAPLUS
- CN Isothiazolo[3,4-d]pvrimidine-4,6(5H,7H)-dione, 3-[bis(2hydroxyethyl)aminol-5,7-diethyl- (CA INDEX NAME)

- RN 56540-89-7 CAPLUS
- CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-diethyl-3-(4morpholiny1) - (CA INDEX NAME)

RN 56540-91-1 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-(dimethylamino)-7-(2-methylpropyl)- (CA INDEX NAME)

RN 56540-92-2 CAPLUS

CN 1-Piperazinecarboxaldehyde, 4-(5,7-dibutyl-4,5,6,7-tetrahydro-4,6-dioxoisothiazolo[3,4-d]pyrimidin-3-yl)- (CA INDEX NAME)

RN 56540-98-8 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-(dimethylamino)-5,7-dimethyl- (CA INDEX NAME)

- RN 56540-99-9 CAPLUS
- CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-(dimethylamino)-7-(2-methoxyethyl)- (CA INDEX NAME)

$${\tt MeO-CH_2-CH_2}$$

- RN 56541-00-5 CAPLUS
- CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-(diethylamino)-5,7-diethyl- (CA INDEX NAME)

- RN 60663-76-5 CAPLUS
- CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-diethyl-3-(methylamino)-(CA INDEX NAME)

RN 60664-03-1 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-[(2-chloroethyl)(2-hydroxyethyl)amino]-5,7-diethyl- (CA INDEX NAME)

RN 60664-09-7 CAPLUS

CN Isothiazolo(3,4-d)pyrimidine-4,6(5H,7H)-dione, 3-(dimethylamino)-7-(phenylmethyl)- (CA INDEX NAME)

GI

AB Reaction of the aminouracil I (R1 = R2 = Rt) with DMF-SOC12 gave the (dimethylamino) isothiasolopyrimidinedione II (R3 = R4 = Me) and the uracils III, IV, and II (R3 = Me, R4 = H) as minor products, whereas similar reactions of I (R1 = R2 = Et, Bu) or 6-amino-1-benzylcytocine with OHCMRSR4 (R3, R4 = CH2CH2CCHO, Et, or NR3R4 = morpholino, 4-formyl-1-piperazinyl)-SOC12 gave the corresponding II (R1 = Et, EU, CH2E), R2-R4 = same as above). However, the S analog V (R1 = R2 = Et) reacted with DMF-SOC12 to give mainly II (R1 = R2 = Et, R3 = R4 = Me) and very little its S analog VI (R1-R4 same as above). Aminoisothiazolopyrimidines are potential cyclic nucleotide phosphodiesterase inhibitors.

10/141.986

L6 ANSWER 19 OF 23 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1976:150881 CAPLUS DOCUMENT NUMBER: 84:150881

ORIGINAL REFERENCE NO.: 84:24535a,24538a

TITLE: Modified nucleoside syntheses

AUTHOR(S): Ogura, Haruo; Takahashi, Hiroshi; Takeda, Kazuyoshi; Sakaguchi, Masakazu; Nimura, Norivuki; Sakai, Hitomi

CORPORATE SOURCE: Sch. Pharm. Sci., Kitasato Univ., Tokyo, Japan SOURCE:

Hukusokan Kagaku Toronkai Koen Yoshishu, 8th (1975), 154-8. Pharm. Inst., Tohoku Univ.: Sendai, Japan.

CODEN: 32KOAD Conference

DOCUMENT TYPE: LANGUAGE: TT 58911-57-2P

Japanese

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RM 58911-57-2 CAPLUS CN

Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethyl-3-[(2,3,4,6tetra-O-acetyl-β-D-glucopyranosyl)amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

- GΙ For diagram(s), see printed CA Issue.
- AB The isothiocyanates I and II were treated with o-C6H4(NH2)2 or 5,6-diamino-1,3-dimethyluracil to give the modified nucleosides III and IV (X = CH:CHCH:CH, NMeCONMeCO, resp.). IV reacted with MeI with elimination of MeSH and gave the corresponding imidazoles V. R2COCH:C(NH2)NMeR3 (R2 = Eto, R3 = Me; R2R3 = NMeCONMe) reacted with I and II to give the corresponding pyrimidines (VI, VII, resp.).

L6 ANSWER 20 OF 23 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1975:497362 CAPLUS DOCUMENT NUMBER: 83:97362

DOCUMENT NUMBER: 83:9/362

ORIGINAL REFERENCE NO.: 83:15309a,15312a

TITLE: 3-Disubstituted aminoisothiazo[3,4-d]pyrimidines

INVENTOR(S): Furukawa, Yoshiyasu; Miyashita, Osamu

PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan

SOURCE: Ger. Offen., 24 pp.
CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
DE 2453212	A1	19750515	DE 1974-2453212		19741109
JP 50082092	A	19750703	JP 1973-127050		19731112
JP 58026356	В	19830602			
FR 2250532	A1	19750606	FR 1974-37112		19741108
FR 2250532	B1	19790504			
US 3959280	A	19760525	US 1974-522863		19741111
GB 1436297	A	19760519	GB 1974-48874		19741112
US 4052391	A	19771004	US 1976-663227		19760303
PRIORITY APPLN. INFO.:			JP 1973-127050	A	19731112
			US 1974-522863	A3	19741111

IT 56540-86-4P 56540-88-6P 56540-89-7P 56540-90-0P 56540-91-1P 56540-92-2P 56540-93-3P 56540-98-8P 56540-99-9P

56541-00-5P 56541-01-6P 56541-02-7P 56541-03-8P 56541-04-9P 56541-05-0P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RN 56540-86-4 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-(dimethylamino)-5,7-diethyl- (CA INDEX NAME)

RN 56540-88-6 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-[bis(2-hydroxyethyl)amino]-5,7-diethyl- (CA INDEX NAME)

$$\begin{array}{c|c} \text{Et} & & \\ & N & \\ & N & \\ \text{Et} & & \\ & N - \text{CH}_2 - \text{CH}_2 - \text{OH} \\ & & \text{CH}_2 - \text{CH}_2 - \text{OH} \end{array}$$

RN 56540-89-7 CAPLUS

CN Isothiazolo(3,4-d)pyrimidine-4,6(5H,7H)-dione, 5,7-diethyl-3-(4-morpholinyl)- (CA INDEX NAME)

RN 56540-90-0 CAPLUS

CN Isothiazolo(3,4-d)pyrimidine-4,6(5H,7H)-dione, 3-(dimethylamino)-7-ethyl-(CA INDEX NAME)

RN 56540-91-1 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-(dimethylamino)-7-(2-methylpropyl)- (CA INDEX NAME)

RN 56540-92-2 CAPLUS CN 1-Piperazinecarboxaldehyde, 4-

CN 1-Piperazinecarboxaldehyde, 4-(5,7-dibutyl-4,5,6,7-tetrahydro-4,6-dioxoisothiazolo[3,4-d]pyrimidin-3-yl)- (CA INDEX NAME)

RN 56540-93-3 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 7-(2-chloroethyl)-3-(dimethylamino)- (CA INDEX NAME)

RN 56540-98-8 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-(dimethylamino)-5,7-dimethyl- (CA INDEX NAME)

- RN 56540-99-9 CAPLUS
- CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-(dimethylamino)-7-(2-methoxyethyl)- (CA INDEX NAME)

${\tt MeO-CH_2-CH_2}$

- RN 56541-00-5 CAPLUS
- CN Isothiazolo(3,4-d)pyrimidine-4,6(5H,7H)-dione, 3-(diethylamino)-5,7-diethyl- (CA INDEX NAME)

- RN 56541-01-6 CAPLUS
- CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-[(4-chlorophenyl)methylamino]-5,7-dimethyl- (CA INDEX NAME)

- RN 56541-02-7 CAPLUS
- CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-(ethylmethylamino)-5-methyl-7-(phenylmethyl)- (CA INDEX NAME)

- RN 56541-03-8 CAPLUS
- CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-(dimethylamino)-5-methyl-7-phenyl- (CA INDEX NAME)

- RN 56541-04-9 CAPLUS
- CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 7-(2-methoxyethyl)-5-methyl-3-(methylphenylamino)- (CA INDEX NAME)

MeO-CH2-CH2

RN 56541-05-0 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 7-(4-chlorophenyl)-3-(diethylamino)-5-ethyl- (CA INDEX NAME)

GI For diagram(s), see printed CA Issue.

AB Isothiazolopyrimidines (I, R1 = Me, HOCH2CH2, Et, R2 = Me, HOCH2CH2, Et, p-C1C6H4, Ph, R3 = Et, Me2CHCH2, Bu, C1CH2CH2, Me, MeOCH2CH2, PhCH2, Ph, p-C1C6H4, R4 = Et, H, Bu, Me, R1R2N = morpholino, 4-formylpiperazinyl), useful as sedatives and inflammation inhibitors, were prepared by cyclization of an aminouracil (II) with R1R1NCH0. I were also useful as adenosine 31.51-cvcliciphosphate phosphodiesterase inhibitors.

10/141.986

L6 ANSWER 21 OF 23 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1975:412166 CAPLUS

DOCUMENT NUMBER: 83:12166

ORIGINAL REFERENCE NO.: 83:2035a,2038a

TITLE:

Isothiazolopyrimidindione dyes Eilingsfeld, Heinz; Hanse, Guenter

BASF A.-G. PATENT ASSIGNEE(S):

Ger. Offen., 30 pp. SOURCE:

CODEN: GWXXBX

DOCUMENT TYPE: Patent German

LANGUAGE: FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2336978	A1	19750206	DE 1973-2336978	19730720
PRIORITY APPLN. INFO.:			DE 1973-2336978 A	19730720
IT 52903-30-7				

RL: USES (Uses)

(coupling of diazotized, with (hydroxyethyl)ethylaniline)

RN 52903-30-7 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-amino-5,7-dimethyl- (CA INDEX NAME)

52903-28-3 52903-29-4 52903-32-9 RL: USES (Uses)

(coupling of diazotized, with [(cyanoethyl)ethylamino]benzene) 52903-28-3 CAPLUS Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-amino-7-methyl- (CA

INDEX NAME)

RN

CN

RN 52903-29-4 CAPLUS CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-amino-7-ethyl- (CA INDEX NAME)

RN 52903-32-9 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-amino-5,7-dibutyl- (CA INDEX NAME)

IT 52956-48-6 RL: USES (Uses)

(coupling with diazotized, with (diethylamino)acetanalide)

RN 52956-48-6 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-amino-7-phenyl- (CA INDEX NAME)

IT 55345-46-5P

RL: IMF (Industrial manufacture); PREP (Preparation) (preparation and acetate and polyester fiber dyeing by)

RN 55345-46-5 CAPLUS

CN Propanenitrile, 3-[ethyl[4-[(7-ethyl-4,5,6,7-tetrahydro-4,6-dioxoisothiazolo[3,4-d]pyrimidin-3-yl)azo]phenyl]amino]- (9CI) (CA INDEX NAME)

IT 55345-45-4P 55345-47-6P 55345-49-8P

55345-51-2P

RL: IMF (Industrial manufacture); PREP (Preparation)

(preparation and acetate, polyamide and polyester fiber dyeing by)

RN 55345-45-4 CAPLUS

CN β-Alanine, N-ethyl-N-[4-[(4,5,6,7-tetrahydro-7-methyl-4,6-dioxoisothiazolo[3,4-d]pyrimidin-3-y1)azo]phenyl]-, methyl ester (9CI) (CA INDEX NAME)

RN 55345-47-6 CAPLUS

CN β-Alanine, N-ethyl-N-[4-[(7-ethyl-4,5,6,7-tetrahydro-4,6-dioxoisothiazolo[3,4-d]pyrimidin-3-yl)azo]phenyl]-, methyl ester (9CI) (CA INDEX NAME)

RN 55345-49-8 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-[[4-[ethyl(2-hydroxyethyl)amino]phenyl]azo]-5,7-dimethyl- (9CI) (CA INDEX NAME)

RN 55345-51-2 CAPLUS

CN β-Alanine, N-[3-chloro-4-[(4,5,6,7-tetrahydro-5,7-dimethyl-4,6-dioxoisothiazolo[3,4-d]pyrimidin-3-yl)azo]phenyl]-N-methyl-, methyl ester (9CI) (CA INDEX NAME)

IT 55345-48-7P 55345-52-3P 55345-53-4P 55345-54-5P

RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation and polvester fiber dueing by)

RN 55345-48-7 CAPLUS

- CN Acetamide, N-[5-(diethylamino)-2-[(4,5,6,7-tetrahydro-4,6-dioxo-7-phenylicothiazolo[3,4-dlpyrimidin-3-yl)azolphenyll- (9CI) (CA INDRY NA)
- phenylisothiazolo[3,4-d]pyrimidin-3-yl)azo]phenylj- (9CI) (CA INDEX NAME)

RN 55345-52-3 CAPLUS

CN Propanenitrile, 3-[[4-[(5,7-dibuty1-4,5,6,7-tetrahydro-4,6-

dioxoisothiazolo[3,4-d]pyrimidin-3-y1)azo]pheny1]ethylamino]- (9CI) (CA INDEX NAME)

RN 55345-53-4 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5,7-dimethyl-3-[(2-methyl-1H-indol-3-yl)azo]- (9CI) (CA INDEX NAME)

RN 55345-54-5 CAPLUS

CN Propanenitrile, 3-[ethyl[4-[(4,5,6,7-tetrahydro-7-methyl-4,6-dioxoisothiazolo[3,4-d]pyrimidin-3-yl)azo]phenyl]amino]- (9CI) (CA INDEX NAME)

- GI For diagram(s), see printed CA Issue.
- AB Isothiazolopyrimidinedione azo dyes (I, R = H, Pr, Bu; Rl = Et, Ph, Pr, Bu; R2 = N, N-disubstituted p-anline derivs., 2-methyl-3-indolyl) were prepared and were used to dye polyester, polyamide, and acetate fibers orange to violet shades. Thus, 3-amino-7-methylistothiazolol3,4-djpyrimidine-4,6-dione [02903-28-3] was diazotized and coupled with PhNBtCH2CH2CN [148-87-8] to give azo dye (II) [55345-54-5], bordeaux on polyester fibers. The other I were similarly prepared

10/141.986

ANSWER 22 OF 23 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1975:170825 CAPLUS

DOCUMENT NUMBER: 82:170825

ORIGINAL REFERENCE NO.: 82:27301a,27304a

Isothiazolo[3,4-d] - and pyrimido[4,5-d]-pyrimidines TITLE:

AUTHOR(S): Niess, Rolf; Eilingsfeld, Heinz

CORPORATE SOURCE: Farbenlab., BASF A.-G., Ludwigshafen, Fed. Rep. Ger. SOURCE: Justus Liebigs Annalen der Chemie (1975), Volume Date

1974, (12), 2019-29 CODEN: JLACBF; ISSN: 0075-4617

DOCUMENT TYPE: Journal LANGUAGE: German

OTHER SOURCE(S): CASREACT 82:170825 52903-28-3P 52903-29-4P 52903-30-7P

52903-31-8P 52903-32-9P 52903-33-0P 52903-35-2P 52903-36-3P 52903-37-4P 52903-38-5P 52903-40-9P 52903-41-0P

52903-42-1P 52956-48-6P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

52903-28-3 CAPLUS RN

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-amino-7-methyl- (CA INDEX NAME)

RN 52903-29-4 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-amino-7-ethyl- (CA INDEX NAME)

52903-30-7 CAPLUS RN

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-amino-5,7-dimethyl- (CA INDEX NAME)

RN 52903-31-8 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-amino-5,7-dipropyl- (CA INDEX NAME)

RN 52903-32-9 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-amino-5,7-dibutyl- (CA INDEX NAME)

RN 52903-33-0 CAPLUS

CN Benzenesulfonamide, 4-methyl-N-(4,5,6,7-tetrahydro-5,7-dimethyl-4,6-dioxoisothiazolo[3,4-d]pyrimidin-3-yl)- (CA INDEX NAME)

RN 52903-35-2 CAPLUS CN Carbamic acid, (4.5.6.

CN Carbamic acid, (4,5,6,7-tetrahydro-5,7-dimethyl-4,6-dioxoisothiazolo[3,4-d]pyrimidin-3-yl)-, ethyl ester (9CI) (CA INDEX NAME)

RN 52903-36-3 CAPLUS

CN Benzenesulfonamide, N-(5,7-dibutyl-4,5,6,7-tetrahydro-4,6-dioxoisothiazolo[3,4-d]pyrimidin-3-yl)-4-methyl- (CA INDEX NAME)

RN 52903-37-4 CAPLUS

CN Benzenesulfonamide, 4-methyl-N-(4,5,6,7-tetrahydro-7-methyl-4,6-dioxoisothiazolo[3,4-d]pyrimidin-3-yl)- (CA INDEX NAME)

RN 52903-38-5 CAPLUS CN Benzenesulfonamide, 4-methyl-N-[4,5,6,7-tetrahydro-4,6-dioxo-7-(phenylmethyl)isothiazolo[3,4-d]pyrimidin-3-yl]- (CA INDEX NAME)

RN 52903-40-9 CAPLUS CN Benzamide, 4-chloro-N-(4,5,6,7-tetrahydro-5,7-dimethyl-4,6-dioxoisothiazolo[3,4-d]pyrimidin-3-yl)- (CA INDEX NAME)

RN 52903-41-0 CAPLUS

CN Benzamide, N-(5,7-dibutyl-4,5,6,7-tetrahydro-4,6-dioxoisothiazolo[3,4-d]pyrimidin-3-yl)- (CA INDEX NAME)

RN 52903-42-1 CAPLUS CN Benzenesulfonamide.

CN Benzenesulfonamide, 4-methyl-N-(4,5,6,7-tetrahydro-4,6-dioxo-5,7-dipropylisothiazolo[3,4-d]pyrimidin-3-yl)- (CA INDEX NAME)

RN 52956-48-6 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-amino-7-phenyl- (CA INDEX NAME)

GI For diagram(s), see printed CA Issue.

AB The isothiazolopyrimidines I (R = e.g. SMe, SCH2Ph, NMe2, morpholino, or Ph) and II (R1 = e.g. H or Pr, R2 = e.g. Me or Bu, R3 = e.g. H, SO2C6H4Me-4, or CO2Et) were prepared by oxidative cyclization of the corresponding carboxamides III and IV (R4 = CSNHR3), resp. IV were prepared by reaction of IV (R4 = H) (V) with R3NCS. Reaction of V with R5CONCS (R5 = e.g. 4-O2NC6H4) and cyclization gave the derivs VI.

L6 ANSWER 23 OF 23 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1974:413488 CAPLUS

DOCUMENT NUMBER: 81:13488

ORIGINAL REFERENCE NO.: 81:2171a,2174a

TITLE: 3-Aminoisothiazolo[3,4-d]pyrimidines Niess, Rolf; Eilingsfeld, Heinz

PATENT ASSIGNEE(S): BASF A.-G.

SOURCE: Ger. Offen., 19 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent. LANGUAGE: German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
DE 2248231	A1	19740411	DE 1972-2248231		19721002
CH 578008	A5	19760730	CH 1973-13917		19730928
FR 2201097	A1	19740426	FR 1973-35018		19731001
GB 1445697	A	19760811	GB 1973-45725		19731001
PRIORITY APPLN. 1	INFO.:		DE 1972-2248231	Α	19721002
TT 52903-33-0 F	52903-34-1 5290	13-35-2			

- 52903-36-3
 - RL: RCT (Reactant); RACT (Reactant or reagent)
- (hydrolysis of) 52903-33-0 CAPLUS
- RN
- CN Benzenesulfonamide, 4-methyl-N-(4,5,6,7-tetrahydro-5,7-dimethyl-4,6dioxoisothiazolo[3,4-d]pyrimidin-3-y1)- (CA INDEX NAME)

- RN 52903-34-1 CAPLUS
- CN Benzamide, N-(4,5,6,7-tetrahydro-5,7-dimethyl-4,6-dioxoisothiazolo[3,4d]pyrimidin-3-y1)- (CA INDEX NAME)

RN 52903-35-2 CAPLUS

CN Carbamic acid, (4,5,6,7-tetrahydro-5,7-dimethyl-4,6-dioxoisothiazolo[3,4-d]pyrimidin-3-yl)-, ethyl ester (9CI) (CA INDEX NAME)

RN 52903-36-3 CAPLUS

CN Benzenesulfonamide, N-(5,7-dibutyl-4,5,6,7-tetrahydro-4,6-dioxoisothiazolo[3,4-d]pyrimidin-3-yl)-4-methyl- (CA INDEX NAME)

IT 52903-28-3P 52903-29-4P 52903-30-7P 52903-31-8P 52903-32-9P 52903-36-3P 52903-37-4P 52903-38-5P 52903-39-6P

52903-40-9P 52903-41-0P 52903-42-1P 52903-43-2P 52903-44-3P 52956-48-6P 52956-49-7P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of) RN 52903-28-3 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-amino-7-methyl- (CA INDEX NAME)

RN 52903-29-4 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-amino-7-ethyl- (CA INDEX NAME)

RN 52903-30-7 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-amino-5,7-dimethyl- (CA INDEX NAME)

RN 52903-31-8 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-amino-5,7-dipropyl- (CA INDEX NAME)

RN 52903-32-9 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-amino-5,7-dibutyl- (CA INDEX NAME)

RN 52903-36-3 CAPLUS
CN Benzenesulfonamide, N-(5,7-dibutyl-4,5,6,7-tetrahydro-4,6dioxoisothiazolo[3,4-d]pyrimidin-3-yl)-4-methyl- (CA INDEX NAME)

RN 52903-37-4 CAPLUS
CN Benzenesulfonamide, 4-methyl-N-(4,5,6,7-tetrahydro-7-methyl-4,6-dioxoisothiazolo[3,4-d]pyrimidin-3-vl)- (CA INDEX NAME)

RN 52903-38-5 CAPLUS
CN Benzenesulfonamide, 4-methyl-N-[4,5,6,7-tetrahydro-4,6-dioxo-7-(phenylmethyl)isothiazolo[3,4-d]pyrimidin-3-yl]- (CA INDEX NAME)

RN 52903-39-6 CAPLUS
CN Benzenesulfonamide, 4-methyl-N-[4,5,6,7-tetrahydro-4,6-dioxo-5,7-bis(phenylmethyl)isothiazolo[3,4-d]pyrimidin-3-yl]- (CA INDEX NAME)

RN 52903-40-9 CAPLUS

CN Benzamide, 4-chloro-N-(4,5,6,7-tetrahydro-5,7-dimethyl-4,6-dioxoisothiazolo[3,4-d]pyrimidin-3-yl)- (CA INDEX NAME)

RN 52903-41-0 CAPLUS

CN Benzamide, N-(5,7-dibutyl-4,5,6,7-tetrahydro-4,6-dioxoisothiazolo[3,4-d]pyrimidin-3-yl)- (CA INDEX NAME)

RN 52903-42-1 CAPLUS
CN Benzenesulfonamide, 4-methyl-N-(4,5,6,7-tetrahydro-4,6-dioxo-5,7-dipropylisothiazolo[3,4-d]pyrimidin-3-yl)- (CA INDEX NAME)

RN 52903-43-2 CAPLUS
CN Benzenesulfonamide, N-[7-(3-ethoxypropyl)-4,5,6,7-tetrahydro-4,6dioxoisothiazolo[3,4-d]pyrimidin-3-yl]-4-methyl- (CA INDEX NAME)

RN 52903-44-3 CAPLUS
CN Benzenesulfonamide, 4-methyl-N-[4,5,6,7-tetrahydro-7-[3-(1-methylethoxy)propyl]-4,6-dioxoisothiazolo[3,4-d]pyrimidin-3-yl]- (CA INDEX NAME)

i-PrO- (CH2)3

RN 52956-48-6 CAPLUS

CN Isothiazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 3-amino-7-phenyl- (CA INDEX NAME)

RN 52956-49-7 CAPLUS

CN Benzenesulfonamide, 4-methyl-N-[4,5,6,7-tetrahydro-7-(3-methoxypropyl)-4,6-dioxoisothiazolo[3,4-d]pyrimidin-3-yl]- (CA INDEX NAME)

MeO- (CH2)3

GI For diagram(s), see printed CA Issue.

AB Isothiazolopyrimidines I (R = H, Me, Bu, Pr, CH2Ph; R1 = Me, Et, Pr, Bu, Pr, CR2Ph, (CH2)3OMe, (CH2)3OEL, (CH2)3-OCHMe2; R2 = H, SO2C6H4Me-p; R = R1 = Me, R2 = CO2-Et, COC6H4Cl-p, Bz, SO2C6H4Me-p) were prepared by cyclizing I (R2 ≠ H), which may be accompanied by hydrolysis of R2.

Thus, 88 % I (R = R2 = H, R1 = Me) was obtained by cyclizing II (R = H, R1 = Me, R2 = SO2C6H4Me-p) with H2SO4. Som I, especially I (R = R1 = Me, R2 = H, CO2Et; R = R1 = Pr, R2 = H) had diuretic and antiinflammatory activities.

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

CA SUBSCRIBER PRICE

STORAL

TOTAL

ENTRY
SESSION
-18.40
-18.40
-18.40
-18.40
-18.40

STN INTERNATIONAL LOGOFF AT 15:46:39 ON 03 JUL 2008